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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/481,814	01/11/2000	Juin-Jet Hwang	ATL-130re	6144
28159 7:	590 10/13/2005		EXAM	INER
PHILIPS MEDICAL SYSTEMS			JAWORSKI, FRANCIS J	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS				
P.O. BOX 3003			ART UNIT	PAPER NUMBER
22100 BOTHELL EVERETT HIGHWAY			3737	
BOTHELL, WA 98041-3003			DATE MAIL ED. 10/12/2005	

DATE MAILED: 10/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		4					
	Application No.	Applicant(s)					
	09/481,814	HWANG ET AL					
Office Action Summary	Examiner	Art Unit					
	Jaworski Francis J.	3737					
The MAILING DATE of this communication appearing for Reply	ppears on the cover sheet with	h the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC, 1.136(a). In no event, however, may a reput d will apply and will expire SIX (6) MONTI ate, cause the application to become ABA	ATION. bly be timely filed HS from the mailing date of this communication, NDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 2/1	,2/15/00.						
·							
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>14,17,18 and 20-25</u> is/are allowed.							
6) Claim(s) <u>1,2,5,6,11,12,15,16 and 19</u> is/are re	Claim(s) <u>1,2,5,6,11,12,15,16 and 19</u> is/are rejected.						
7) \boxtimes Claim(s) 3.4.7-10 and 13 is/are objected to.	7) Claim(s) <u>3,4,7-10 and 13</u> is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.						
Application Papers		,					
9) The specification is objected to by the Examir	ner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to th	e drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre	•	•					
11) ☐ The oath or declaration is objected to by the I	Examiner. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)☐ Acknowledgment is made of a claim for foreig a)☐ All b)☐ Some * c)☐ None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the pr	· ·	received in this National Stage					
application from the International Bure * See the attached detailed Office action for a list	•	eceived					
See the attached detailed Office action for a like	st of the certified copies not in	eceived.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Su						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 		/Mail Date formal Patent Application (PTO-152)					
Paper No(s)/Mail Date <u>2/1/00, 2/15/00</u> . 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 11-12, 15-16 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 11 and 15 lack antecedence for 'said pulse sequence' since sequentiality is only presented as a feature in claim 7.

In claims 12,16,19 the terms in the equation are undefined.

Applicant is reminded of the continuing obligation under 37 CFR 1.178(b), to timely apprise the Office of any prior or concurrent proceeding in which Patent No. 5706819 is or was involved. These proceedings would include interferences, reissues, reexaminations, and litigation.

Applicant is further reminded of the continuing obligation under 37 CFR 1.56, to timely apprise the Office of any information which is material to patentability of the claims under consideration in this reissue application.

These obligations rest with each individual associated with the filing and prosecution of this application for reissue. See also MPEP §§ 1404, 1442.01 and 1442.04.

Claim Rejections - 35 USC § 102/103

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 – 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chapman et al (US5632277) which suggests summing out-of-phase successive transmissions to emphasize contrast in non-linear fluid media wherefore the artisan

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would know that such media might embrace ultrasonic contrast agent materials extent in use at the time.

Claims 5-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Brock-Fisher et al (US5577505, of record) since col. 3 lines 15-24 suggests using a pulse sequence of progressively increasing voltage amplitudes and subtractively combining same to emphasize a non-linear response.

Allowable Subject Matter

Claims 3-4 and 7-10, 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 11-12, 15-16 and 19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claims 14, 17 – 18 and 20-25 are allowed.

Any inquiry concerning this communication should be directed to Jaworski Francis J. at telephone number 571-272-4738

FJJ:fjj 09302005

Francis J. Jaworski Primary Examiner